Panasonic

SXGA LCD Projector

PT-**L6600**U/UL

XGA LCD Projector

PT-**L6510**U/UL

Raising the Ceiling on Performance

- Enhanced 4200 ANSI brightness for the PT-L6510
- BriteOptic™ dual lamp system
  - Newly designed lamp unit
  - Increased reliability
  - 4-mode lamp operation (max. 6000-hour lamp life)
- Quiet operation with new fan control system
- Digital Cinema Reality™
- Easy setup and maintenance
- One-touch auto setup
- Digital keystone correction
- Multiple terminals including DVI
- Wide selection of lenses
- Motorized lens shift
- Advanced shutter

BriteOptic™
Dual Lamp System

Panasonic ideas for life

Center-mounted lens

Centered on Quality

Panasonic's PT-L6600U/UL and PT-L6510U/UL LCD projectors incorporate our highly acclaimed BriteOptic™ Dual Lamp system, which delivers clear, sharp, well-defined images with outstanding brightness.

Aided by extensive user input, we began by making key improvements to the system engine, then devised a symmetrical design that places the lens directly in the unit's center, for easier image positioning. We also incorporated the latest DSP technology to assure precise, consistent performence.

The result: a series of projectors that deliver ultra-bright, beautiful images while greatly improving setup and maintenance ease.

See how brilliant your presentations look when delivered through Panasonic PT-L6600U/UL and PT-L6510U/UL projectors.

BriteOptic™
Dual Lamp System

Wide Variety: Choose the BriteOptic™ Projector that Best Meets Your Needs

PT-L6600U

SXGA Projector

- **Ultrabright 3600 ANSI lumens with 4-mode lamp operation**
- **BriteOptic™ dual lamp system and UHM™ lamps**
- **True SXGA (1280 x 1024), maximum UXGA (1600 x 1200) resolution**
- **Digital Cinema Reality for excellent moving images**
- **Multiple terminals, including digital visual interface (DVI)**
- **Easy setup and mainenance: Auto setup with digital keystone correction**
- **Stackable for double brightness (up to 7200 ANSI lumens)**

PT-L6510U

XGA Projector

- **Ultrabright 4200 ANSI lumens with 4-mode lamp operation**
- **BriteOptic™ dual lamp system and UHM™ lamps**
- **True XGA (1024 x 768), maximum UXGA (1600 x 1200) resolution**
- **Digital Cinema Reality for excellent moving images**
- **Multiple terminals, including digital visual interface (DVI)**
- **Easy setup and mainenance: Auto setup with digital keystone correction**
- **Stackable for double brightness (up to 8400 ANSI lumens)**

PT-L6600UL/L6510UL

The PT-L6600UL and PT-L6510UL deliver the same superior performance as the PT-L6600U and PT-L6510U, respectively, but come with no lens. Combine them with an optional lens to create a system that's tailored to your specific presentation needs and usage conditions.

A Host of Panasonic's Leading Technologies

Ultrahigh Brightness and Contrast
Employing two lamp units, the revolutionary BriteOptic™ Dual Lamp system provides high brightness, high contrast, and faithful color reproduction. Featuring the Micro Lens Array (MLA), the PT-L6600U/UL offers 3,600 ANSI lumens of brightness and the PT-L6510U/UL delivers high output of 4,200 ANSI lumens.

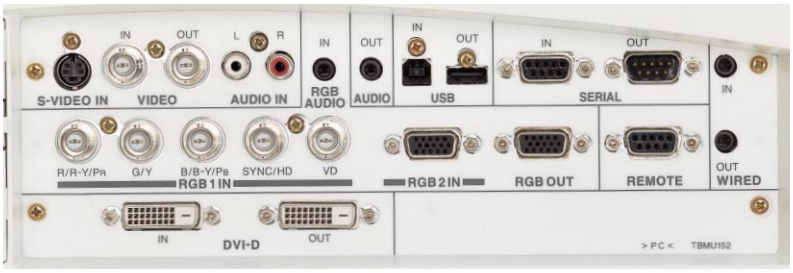
Increased Reliability
These projectors have a long lamp life of 3,000 hours (at dual lamp operation in standard mode). With the BriteOptic™ Dual Lamp System, even if one lamp burns out, the remaining lamp provides sufficient brightness. Or, if only one lamp is used, service life is effectively doubled before lamp replacement is necessary.

4-Mode Lamp Operation
Two levels of power are provided for each lamp, giving you a total of four lamp power settings to choose from. You can choose the setting that provides maximize brightness or one that ensures longer lamp life (max. 6,000 hours*), depending on presentation needs and usage conditions.

** Single lamp operation in standard mode*

High Resolution
The PT-L6600U/UL offers true SXGA resolution and the PT-L6510U/UL provide true XGA resolution, allowing display of detailed computer graphics and text. When displaying images of other types, the signals are expanded or compressed through a sophisticated digital processing system.

Digital Cinema Reality™
The PT-L6600U/UL and PT-L6510U/UL incorporate the Digital Cinema Reality circuit. This advanced technology, which provides progressive procession optimized for a 24-frames/sec moving picture source, helps achieve high-quality reproduction that is extremely faithful to the original cinema source.



Terminals

Multiple Terminals Including DVI
The PT-L6600U/UL and PT-L6510U/UL are equipped with a full range of connection terminals, including two RGB inputs and one each RGB monitor output, S-Video input, video input, USB input/output, and serial input/output. They also provide DVI-D IN and DVI-D OUT digital visual interfaces.

Installation Options
Two ceiling mount brackets are available, one for high ceilings and one for lower ceilings. A stacking mount bracket and a simpler version are also available, for quick, easy, temporary stacking of two units.

Easy Setup and Maintenance
The PT-L6600U/UL and PT-L6510U/UL feature a symmetrical design in which the lens is centered, making it easier to position the projector and screen. Maintenance is easier too, thanks to a design that lets you replace a lamp without removing the projector from the bracket in either the ceiling-mounted or dual stacking configuration.

Lamps can be easily replaced.

One-Touch Auto Setup
This function automatically identifies the signal mode of the input source and adjusts the image accordingly. You get optimal viewing quality, with no additional software, equipment or manual adjustment necessary.

A Wide Range of Uses
The PT-L6600U/UL and PT-L6510U/UL provide the quality and performance needed in almost any application. Use them in meeting rooms, theaters, museums, convention halls, public spaces, schools, research labs — anyplace where bright, beautiful images are a plus. Also, the superb resolution made possible by DVI input delivers images with excep-

Options for More Flexible Installation

ET-LE050
Fixed-focus short-throw lens
- Screen size: 40″ to 60″
- Throw ratio: 0.7:1
- Throw distance: Approx. 0.55 m to 0.86 m

ET-LE101
Short-throw lens
- Screen size: 30″ to 300″
- Throw ratio: 1.3–1.8:1
- Throw distance: Approx. 1.1 m to 11.0 m

ET-LE150
Short-throw lens
- Screen size: 30″ to 300″
- Throw ratio: 1.8–2.4:1
- Throw distance: Approx. 1.4 m to 14.6 m

ET-LE200
Medium-throw lens
- Screen size: 30″ to 300″
- Throw ratio: 2.7–4.4:1
- Throw distance: Approx. 2.1 m to 26.7 m

ET-LE300
Long-throw lens
- Screen size: 30″ to 300″
- Throw ratio: 4.5–6.0:1
- Throw distance: Approx. 3.6 m to 35.4 m

ET-PKL6500
Ceiling mount bracket for high ceilings

ET-PKL6500S
Ceiling mount bracket for low ceilings

ET-DFL6500
Dual stacking mount bracket for desk/ ceiling mount

ET-DFL6500P
Dual stacking mount bracket for desks

ET-LAL6510
Replacement lamp unit

ET-LAL6510W
Replacement lamp units (twin pack of ET-LAL6510 lamp units)

ET-RMRC1
Wireless remote receiver

ET-SCDV03
DVI cable (3 m)

tional detail and accuracy. This makes these projectors suitable for use as main systems for monitoring traffic or electric power facilities, or in operation centers for police or fire and air traffic control centers.

Lens Shift

Shift the projected image vertically even after the projector is set in position. The PT-L6600U and PT-L6510U have a wide adjustment range, and the image remains distortion free. This offers you the peace of mind that comes with the reliability of virtual-zero downtime.

Other Valuable Features

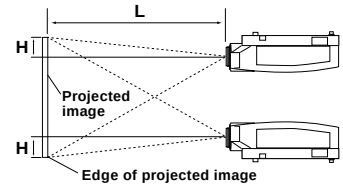
- Advanced shutter function: Minimizes distracting light leakage, as well as noise and power consumption, when the image is muted.
- Digital zoom: Portions of the image can be enlarged to 3x in steps of 0.1x.
- Freeze Frame: Moving pictures can be frozen at any time and projected as still pictures.
- Exhaust duct with noise cancel system achieves quiet 36-dB operation (with lamp power at Normal).
- Center-to-corner uniformity ratio (CCR) of over 90%
- Wireless remote with mouse control
- Lightweight and durable magnesium-alloy cabinet
- Power zoom/focus lens capable of projecting a 30˝ to 300˝ diagonal image
- Ceiling/desk, front/rear projection capable
- RS-232C computer interface and contact closure remote terminal
- S-Video compatibility
- Motorized retractable lens for lens protection
- Selectable 7-language on-screen menu (English, German, French, Spanish, Italian, Chinese, Japanese)
- Indicators for lamp errors, thermal warnings, and suggested replacement
- Universal AC power supply (auto-voltage: 100–120 V/220–240 V)
- Built-in stereo amplifier and speakers (3W + 3W) for true multimedia applications

Wireless remote control

Front view

Projection setting example

L : Projection distance when mounted with the ET-PKL6500. (Projection size is adjustable.)
H : Height from upper/lower edge of projected image to center of lens.
(Position of projected image can be easily adjusted by using lens shift function.)



PT-L6600U/L6510U

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	1.4 – 1.9 m (4′8″ – 6′4″)	0.030 – 0.30 m (1-3/16″ – 11-13/16″)
60 inches (1,219 x 914 mm)	2.1 – 2.9 m (6′11″ – 9′8″)	0.045 – 0.45 m (1-3/4″ – 1′16″)
100 inches (2,032 x 1,524 mm)	3.6 – 4.8 m (11′1″ – 15′9″)	0.076 – 0.76 m (2″ – 2′6″)
160 inches (3,251 x 2,438 mm)	5.8 – 7.8 m (19′ – 25′7″)	0.121 – 1.21 m (4-3/4″ – 4′)
220 inches (4,470 x 3,353 mm)	8.1 – 10.7 m (26′7″ – 35′1″)	0.167 – 1.67 m (6-9/16″ – 5′6″)
300 inches (6,096 x 4,572 mm)	11.0 – 14.6 m (36′1″ – 47′11″)	0.228 – 2.28 m (9″ – 7′6″)

PT-L6600UL/L6510UL with the ET-LE050 fixed short-throw lens

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	0.55 m (1′10″)	0.305 m (1′)
50 inches (1,016 x 762 mm)	0.70 m (2′4″)	0.381 m (1′3″)
60 inches (1,219 x 914 mm)	0.86 m (2′10″)	0.457 m (1′6″)

PT-L6600UL/L6510UL with the ET-LE101 short-throw lens

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	1.1 – 1.4 m (3′7″– 4′8″)	0.030 – 0.30 m (1-3/16″ – 11-13/16″)
60 inches (1,219 x 914 mm)	1.6 – 2.1 m (5′2″ – 7′)	0.045 – 0.45 m (1-3/4″ – 1′16″)
100 inches (2,032 x 1,524 mm)	2.7 – 3.6 m (8′11″ – 11′11″)	0.076 – 0.76 m (2″ – 2′6″)
160 inches (3,251 x 2,438 mm)	4.4 – 5.8 m (14′5″ – 19′)	0.121 – 1.21 m (4-3/4″ – 4′)
220 inches (4,470 x 3,353 mm)	6.1 – 8.1 m (20′ – 26′7″)	0.167 – 1.67 m (6-9/16″ – 5′6″)
300 inches (6,096 x 4,572 mm)	8.4 – 11.0 m (27′7″ – 36′1″)	0.228 – 2.28 m (9″ – 7′6″)

PT-L6600UL/L6510UL with the ET-LE150 short-throw lens

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	1.4 – 1.9 m (4′8″ – 6′4″)	0.030 – 0.30 m (1-3/16″ – 11-13/16″)
60 inches (1,219 x 914 mm)	2.1 – 2.9 m (6′11″ – 9′8″)	0.045 – 0.45 m (1-3/4″ – 1′16″)
100 inches (2,032 x 1,524 mm)	3.6 – 4.8 m (11′1″ – 15′9″)	0.076 – 0.76 m (2″ – 2′6″)
160 inches (3,251 x 2,438 mm)	5.8 – 7.8 m (19′ – 25′7″)	0.121 – 1.21 m (4-3/4″ – 4′)
220 inches (4,470 x 3,353 mm)	8.1 – 10.7 m (26′7″ – 35′1″)	0.167 – 1.67 m (6-9/16″ – 5′6″)
300 inches (6,096 x 4,572 mm)	11.0 – 14.6 m (36′1″ – 47′11″)	0.228 – 2.28 m (9″ – 7′6″)

PT-L6600UL/L6510UL with the ET-LE200 medium-throw lens

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	2.1 – 3.4 m (6′11″ – 11′2″)	0.030 – 0.30 m (1-3/16″ – 11-13/16″)
60 inches (1,219 x 914 mm)	3.1 – 5.2 m (10′3″ – 17′)	0.045 – 0.45 m (1-3/4″ – 1′16″)
100 inches (2,032 x 1,524 mm)	5.4 – 8.7 m (17′9″ – 28′7″)	0.076 – 0.76 m (2″ – 2′6″)
160 inches (3,251 x 2,438 mm)	8.6 – 14.1 m (28′3″ – 46′3″)	0.121 – 1.21 m (4-3/4″ – 4′)
220 inches (4,470 x 3,353 mm)	11.9 – 19.5 m (39′ – 64′)	0.167 – 1.67 m (6-9/16″ – 5′6″)
300 inches (6,096 x 4,572 mm)	16.3 – 26.7 m (53′6″ – 87′7″)	0.228 – 2.28 m (9″ – 7′6″)

PT-L6600UL/L6510UL with the ET-LE300 long-throw lens

Projection size* (W x H)	L	H
40 inches (813 x 610 mm)	3.6 – 4.8 m (11′10″ – 15′9″)	0.030 – 0.30 m (1-3/16″ – 11-13/16″)
60 inches (1,219 x 914 mm)	5.4 – 7.1 m (17′8″ – 23′3″)	0.045 – 0.45 m (1-3/4″ – 1′16″)
100 inches (2,032 x 1,524 mm)	8.9 – 11.8 m (29′2″ – 38′8″)	0.076 – 0.76 m (2″ – 2′6″)
160 inches (3,251 x 2,438 mm)	14.3 – 18.9 m ((46′11″ – 62′)	0.121 – 1.21 m (4-3/4″ – 4′)
220 inches (4,470 x 3,353 mm)	19.6 – 26.0 m (64′4″ – 85′4″)	0.167 – 1.67 m (6-9/16″ – 5′6″)
300 inches (6,096 x 4,572 mm)	26.7 – 35.4 m (87′7″ – 116′)	0.228 – 2.28 m (9″ – 7′6″)

*** inches: diagonally, aspect ratio: 4:3**

Compatible graphic modes

VGA400	f_H	fv
640 x 400	24.8	56.4
	31.5	70.1

VGA480	f_H	fv
640 x 480	31.5	59.9
	35.0	66.7
	37.9	72.8
	37.5	75.0
	43.3	85.0

SVGA	f_H	fv
800 x 600	32.1	51.0
	35.2	56.3
	37.9	60.3
	48.1	72.1
	46.9	75.0
	53.7	85.1

XGA	f_H	fv
1024 x 768	48.4	60.0
	56.5	70.1
	60.0	75.0
	65.5	81.6
	68.7	85.0
	80.0	100.8
	94.0	1200.0
1024 x 768i	*35.5*	*86.8*

MXGA	f_H	fv
1152 x 864	63.9	70.0
	67.5	75.0
	77.1	85.0
1120 x 750	50.1	60.1
1120 x 750i	*32.6*	*80.0*

SXGA	f_H	fv
1280 x 1024	52.4	50.0
	64.0	60.0
	72.4	66.3
	78.2	71.7
	80.0	75.0
	91.2	**85.0**
1280 x 1024i	*46.2*	*86.0*
	47.6	*88.9*

UXGA	f_H	fv
1600 x 1200	75.0	60.0
	87.5	70.0
	93.8	75.0

Mac 16″	f_H	fv
832 x 624	49.7	74.6

Mac 21″	f_H	fv
1152 x 870	68.6	75.0

NTSC	f_H	fv
768 x 480i	*15.7*	*59.9*

PAL	f_H	fv
768 x 576i	*15.6*	*50.0*

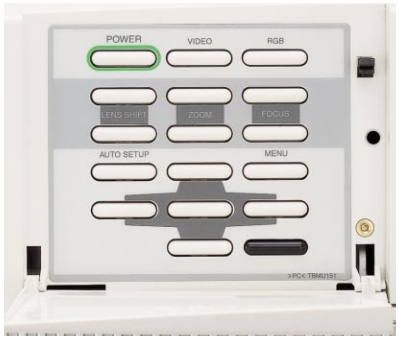
480p	f_H	fv
720 x 483	31.5	59.9

720p	f_H	fv
1280 x 720	45.0	60.0

HDTV	f_H	fv
1920 x 1035i	*33.8*	*60.0*

f_H : Horizontal frequency (kHz)
fv : Vertical frequency (Hz)
Italic: interlaced signals
Bold: For the PT-L6600U/L6600UL only

NOTE:
The display resolution of the PT-L6600U/L6600UL is 1366 x 1024 pixels. Input signals other than SXGA (1280 x 1024 pixels) will be converted to 1366 x 1024 pixels. When the input signal is SXGA (1280 x 1024 pixels), it will be projected as it is without being converted.
The display resolution of the PT-L6510U/L6510UL is 1024 x 768 pixels. If the display resolution indicated in the above data does not match this resolution, the input signal will be converted to 1024 x 768 pixels.



Control panel (Photo shows the PT-L6600U/L6510U. Controls of the PT-L6600UL/L6510UL are slightly different.)

Specifications

	PT-L6600U	PT-L6510U	PT-L6600UL	PT-L6510UL
Power supply	100–240 V AC, 50/60 Hz			
Power consumption	600 W (during standby mode with fan stopped: Max. 10 W)			
Max. amps	5.0 A			
Color system	NTSC/M-NTSC/PAL/PAL-M/PAL-N/SECAM			
LCD panel	1.3″ (diagonal) with Micro Lens Array (MLA)			
Display method	Transparent LCD panels (x 3)			
Drive method	Active matrix			
Pixels	1,398,784 (1,366 x 1,024) x 3	786,432 (1,024 x 768) x 3	1,398,784 (1,366 x 1,024) x 3	786,432 (1,024 x 768) x 3
Pixel configuration	Stripe			
Screen aspect ratio	4:3 (16:9 compatible)			
Lens	Power zoom/focus lens (1:1–1:1.3) F 1.7–2.3, f 49.1–63.8 mm		(option) (option)	
Lamp	DC-type 220 W UHM™ lamps x 2 (BriteOptic™ Dual Lamp System)			
Lamp life	3000 hours (dual lamp, standard mode), 6000 hours (single lamp, standard mode)			
Colors	Full color (16,777,216 colors)			
Brightness				
Dual lamp, high mode	3600 ANSI lumens	4200 ANSI lumens	3600 ANSI lumens	4200 ANSI lumens
Single lamp, high mode	1800 ANSI lumens	2100 ANSI lumens	1800 ANSI lumens	2100 ANSI lumens
CCR	90%			
Contrast	400:1 (full white/full black)	600:1 (full white/full black)	400:1 (full white/full black)	600:1 (full white/full black)
Resolution				
RGB	1366 x 1024 pixels	1024 x 768 pixels	1366 x 1024 pixels	1024 x 768 pixels
Video	1000 TV lines	760 TV lines	1000 TV lines	760 TV lines
Scanning frequency				
RGB	Horizontal: 24–97 kHz, Vertical: 50–120 Hz			
Y_PB_PR	480p: f_H 31.5 kHz; fv 60 Hz / 720p: f_H 45 kHz; fv 60 Hz / 1080i: f_H 33.75 kHz; fv 60 Hz			
S-Video/Video	Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz			
Screen size	7.62–76.2 m (30–300 inches) diagonally		(varies with optional lens)	
Throw distance	1.4–14.6 m (4′8″–47′11″)		(varies with optional lens)	
Optical axis shift	10/10–1/19 (horizontal)			
Installation	Ceiling/desk, front/rear (menu selection)			
Built-in speakers				
Size	7 x 4 cm (2-3/4″ x 1-9/16″) (x 2)			
Output power	6 W (3 W + 3 W) (10% THD)			
On-screen display languages	English, German, French, Spanish, Italian, Chinese, Japanese			
Terminals				
RGB/YUV	IN: D-sub HD 15-pin x 1, 5 BNC x 1			
RGB	OUT: D-sub HD 15-pin x 1			
Digital RGB	IN: DVI-D 24-pin x 1, OUT: DIV-D 24-pin x 1			
S-Video	IN: Mini DIN 4-pin x 1			
Video	IN: BNC x 1, OUT: BNC x 1			
Video audio	IN: RCA jack (L, R) x 1			
RGB audio	IN: M3 (L, R) x 1			
Audio monitor	OUT: M3 (L, R) x 1			
RS-232C	IN: D-sub 9-pin x 1, OUT: D-sub 9-pin x 1			
Contact closure	D-sub 9-pin x 1			
USB	IN: Type B x 1 (up, for mouse), OUT: Type A x 1 (down, for USB hub)			
Wired remote	IN: M3 x 1, OUT: M3 x 1			
Noise level	36 dB (standard mode)			
Dimensions (W x H x D)	495 x 179 x 495 mm (19-1/2″ x 7-1/16″ x 19-1/2″)			
Weights	13.8 kg (30.5 lbs.)		12.6 kg (27.8 lbs)	
Operating temperature	0°–40°C (32°–104°F)			
Operating humidity	20%–80% (no condensation)			
Safety regulations	UL1950, C-UL, FCC			
Remote control unit				
Power supply	3 V DC (AA-size battery x 2)			
Operation range	Approx. 7 m (23′) when operated from directly in front of the signal receptor			
Weight	Approx. 102 g (3.6 oz.) (including batteries)			
Dimensions (W x H x D)	46 x 34 x 190 mm (1-3/4″ x 1-3/8″ x 7-1/2″)			
Supplied accessories	Wireless/wired remote control unit, Batteries for remote control unit, Remote control cable (15 m), Remote control adapter plug, Power cord, VGA cable, USB cable, Exhaust guide			
Optional accessories	Replacement lamp unit: ET-LAL6510 (single lamp), ET-LAL6510W (set of two lamps) Ceiling mount bracket: ET-PKL6500 (for high ceilings), ET-PKL6500S (for low ceilings) Dual stacking mount bracket: ET-DFL6500 (for desk/ceiling mount), Dual stacking mount bracket: ET-DFL6500P (for desk mount), Fixed-focus short-throw lens (0.7:1): ET-LE050, Short-throw zoom lens (1.3–1.8:0): ET-LE101, Short-throw zoom lens (1.8–2.4:0): ET-LE150, Medium-throw zoom lens (2.7–4.4:0): ET-LE200, Long-throw zoom lens (4.5–6.0:0): ET-LE300, DVI cable: ET-SCDV03, Wireless remote receiver: ET-RMRC1			

Panasonic is the brandname of Matsushita Electric

Please contact Panasonic or your dealer for a demonstration.

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PT-L6600/L6510T1-02NOV20K Printed in Japan.

Panasonic ideas for life